2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: North Fork Goose Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A06R_NOG02A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.47 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Outlet from Sleeter Lake

RIVER MILE: 12.00

LATITUDE: 39.12167 **LONGTITUDE:** -77.75833

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Jacks Run

RIVER MILE: 9.53

LATITUDE: 39.10778 **LONGTITUDE:** -77.73028

Segment begins at the outlet from Sleeter Lake and continues downstream to the confluence with Jacks Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring at station 1aNOG-7-LWC near the Tranquilty Road bridge finds a medium probability of adverse conditions. As a result, 2.47 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: North Fork Goose Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A06R_NOG01A00 **TMDL MAP ID:** VAN-A06R-01

SEGMENT SIZE: 4.29 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - 2004

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 9.32

LATITUDE: 39.10417 **LONGTITUDE:** -77.72528

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Crooked Run

RIVER MILE: 5.03

LATITUDE: 39.07639 **LONGTITUDE:** -77.68694

Segment begins at the confluence of an unnamed tributary to North Fork Goose Creek, approximately 0.25 river miles upstream from the Route 725 bridge, and continues downstream to its confluence with Crooked Run, approximately 0.35 river miles upstream from Route 729 bridge.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient fecal coliform bacteria exceedances (7 of 18 samples - 38.9%) were recorded at DEQ's ambient water quality monitoring station (1aNOG005.69) at the Route 722 bridge to assess this stream segment as not supporting of the Clean Water Act's (CWA's) Swimmable Use goal for the 2002 305(b) report.

Additionally, sufficient exceedances of the phosphorous screening value of 200 ug/L were recorded at station 1aNOG005.69 to assess the segment as fully supporting but threatened of the CWA's Aquatic Life Use goal for the 2002 305(b) report. Two of 18 samples (11.1%) exceeded the phosphorous screening value.

The source of impairment is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: North Fork Beaverdam Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A07R_NOB01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.89 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 2.89

LATITUDE: 39.07417 **LONGTITUDE:** -77.76361

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Beaverdam Creek

RIVER MILE: 0.00

LATITUDE: 39.04500 **LONGTITUDE:** -77.75139

Segment begins at the confluence of an unnamed tributary to the North Fork Beaverdam Creek, near the Rt. 730 bridge crossing the unnamed tributary, and continues downstream to the confluence with the main stem of Beaverdam Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring at station 1aNOB-9-LWC finds a medium probability of adverse conditions. As a result, 2.89 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: Beaverdam Creek Reservoir

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A08L_BEE01A02 **TMDL MAP ID:**

SEGMENT SIZE: 96 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.73

LATITUDE: 39.01750 **LONGTITUDE:** -77.53944

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE: 0.3

LATITUDE: 39.02583 **LONGTITUDE:** -77.54167

Segment includes the lower portion of Beaverdam Creek Reservoir from the spillway extending upstream approximately 0.6 rivermiles along the artificial path to the confluence of an unnamed tributary and the reservoir artificial path.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Manganese	Unknown

SUMMARY:

The manganese taste and odor water quality criteria was exceeded at monitoring station 1aBEE000.40 on the Beaverdam Creek Reservoir in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the Clean Waters Act's Drinking Water Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: Sycolin Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A08R_SYC01A00 **TMDL MAP ID:**

SEGMENT SIZE: 2.85 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 2.85

LATITUDE: 39.06056 **LONGTITUDE:** -77.55611

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Goose Creek

RIVER MILE: 0.00

LATITUDE: 39.06972 **LONGTITUDE:** -77.51917

Segment begins at the confluence of an unnamed tributary to Sycolin Creek, approximately 0.23 rivermiles upstream from Route 643, and continues downstream to its confluence with Goose Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Manganese	Unknown

SUMMARY:

The manganese taste and odor water quality criteria was exceeded at monitoring station 1aSYC002.03 at the Route 653 bridge in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the Clean Waters Act's Drinking Water Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: Tuscarora Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A08R_TUS01A00 **TMDL MAP ID:**

SEGMENT SIZE: 3.55 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Town Branch

RIVER MILE: 3.55

LATITUDE: 39.10444 **LONGTITUDE:** -77.56139

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Goose Creek

RIVER MILE: 0.00

LATITUDE: 39.08472 **LONGTITUDE:** -77.51083

Segment begins at the confluence of Town Branch to Tuscarora Creek, approximately 0.55 rivermile upstream of the Route 643 bridge, downstream to its confluence with Goose Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring at station 1aTUS-2-LWC finds a high probability of adverse conditions. As a result, 3.55 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Loudoun

STREAM NAME: Broad Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A09R_BRB01A00 **TMDL MAP ID:**

SEGMENT SIZE: 2.88 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Beaverdam Run

RIVER MILE: 2.88

LATITUDE: 39.04444 **LONGTITUDE:** -77.44500

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 39.07111 **LONGTITUDE:** -77.44417

Segment begins at the confluence of Beaverdam Run to Broad Run, approximately 0.8 rivermiles upstream of Route 7, and continues downstream to its confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Manganese	Unknown

SUMMARY:

The manganese taste and odor water quality criteria was exceeded at monitoring station 1aBRB002.15 at the Route 7 bridge in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the Clean Waters Act's Drinking Water Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax, Loudoun

STREAM NAME: Horsepen Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A09R_HPR01A00 **TMDL MAP ID:**

SEGMENT SIZE: 6.38 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 7.31

LATITUDE: 38.92333 **LONGTITUDE:** -77.40694

DOWNSTREAM LIMIT:

DESCRIPTION: Cofluence with Stallion Branch

RIVER MILE: 0.93

LATITUDE: 38.98333 **LONGTITUDE:** -77.46417

Segment begins at the confluence of an unnamed tributary to Horsepen Run, approximately 0.7 rivermiles upstream from Route 657, and continues downstream to its confluence with Stallion Branch, 0.83 rivermiles upstream of Route 606.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Sediments - Thallium	Unknown

SUMMARY:

The ER-M criteria for Thallium (13.5 as 99th percentile) was exceeded in a sediment sample collected on 08/26/97 at monitoring station 1aHPR003.87, at the Dulles Access Road bridge. As a result, this stream segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

The source of Thallium is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Sugarland Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A10R_SUG02A02 **TMDL MAP ID:**

SEGMENT SIZE: 3.5 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Smilax Branch

RIVER MILE: 9.25

LATITUDE: 38.95639 **LONGTITUDE:** -77.37306

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Folly Lick Branch

RIVER MILE: 5.75

LATITUDE: 38.99750 **LONGTITUDE:** -77.37167

Segment begins at the confluence of Smilax Branch to Sugarland Run and continues downstream to the confluence with Folly Lick Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring at stations 1aSUG-SLR1-SOS and 1aSUG-SLR2-SOS both find a high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax, Loudoun

STREAM NAME: Sugarland Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A10R_SUG01A00 **TMDL MAP ID:** VAN-A10R-01

SEGMENT SIZE: 5.75 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Folly Lick Branch

RIVER MILE: 5.75

LATITUDE: 38.99750 **LONGTITUDE:** -77.37167

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 39.06167 **LONGTITUDE:** -77.36806

Segment begins at the confluence of Folly Lick Branch to Sugarland Run and continues downstream to its confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Sufficient fecal coliform bacteria exceedances (3 of 18 samples - 16.7%) were recorded at DEQ's ambient water quality monitoring station at the Route 7 bridge (1aSUG004.42) to assess this stream segment as partially supporting of the Clean Water Act's (CWA) Swimmable Use goal for the 2002 305(b) report.

In addition, citizen monitoring at station 1aSUG-SLR3-SOS finds a medium probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report.

The source of impairment is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Snakeden Branch

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_SNA03A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.89 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Snakeden Branch

RIVER MILE: 3.65

LATITUDE: 38.93944 **LONGTITUDE:** -77.36278

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Lake Audubon

RIVER MILE: 1.76

LATITUDE: 38.92889 **LONGTITUDE:** -77.33361

Segment begins at the headwaters of Snakeden Branch and continues downstream to the start of Lake Audubon.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aSNA-DR15-SOS, 1aSNA-DR30-SOS, and 1aSNA-DR29-SOS all find medium probability of adverse conditions. As a result, 1.89 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Snakeden Branch

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_SNA01A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.32 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Outlet from Lake Audubon

RIVER MILE: 1.32

LATITUDE: 38.93222 **LONGTITUDE:** -77.32667

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Difficult Run

RIVER MILE: 0.00

LATITUDE: 38.93028 **LONGTITUDE:** -77.30750

Segment begins at the outlet from Lake Audubon and continues downstream to the confluence with Difficult Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aSNA-DR3-SOS and 1aSNA-DR11-SOS find medium and high probability, respectively, of adverse conditions. As a result, 1.32 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Difficult Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_DIF01A00 **TMDL MAP ID:** VAN-A11R-01

SEGMENT SIZE: 2.93 - Miles

INITIAL LISTING: 1994 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Captain Hickory Run

RIVER MILE: 2.93

LATITUDE: 38.97222 **LONGTITUDE:** -77.27722

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.97611 **LONGTITUDE:** -77.23528

Segment begins at the confluence of Captain Hickory Run with Difficult Run, approximately 0.6 river miles upstream from the Route 683 bridge, and continues downstream to its confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown
Manganese	

SUMMARY:

Biological monitoring at station 1aDIF000.86 at the Route 193 bridge determined that the benthic community in the stream is moderately impaired. As a result, 2.93 stream miles were assessed as partially supporting the Clean Water Act's (CWA) Aquatic Life Use goal for the 2002 305(b) report.

Additionally, the manganese taste and odor water quality criteria was exceeded at the same monitoring station in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the CWA's Drinking Water Use goal in the 2002 305(b) report.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Difficult Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_DIF02A02 **TMDL MAP ID:**

SEGMENT SIZE: 8.32 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Difficult Run

RIVER MILE: 12.44

LATITUDE: 38.87306 **LONGTITUDE:** -77.33889

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Wolftrap Creek

RIVER MILE: 4.12

LATITUDE: 38.96222 **LONGTITUDE:** -77.28806

Segment begins at the confluence of an unnamed tributary with Difficult Run, approximately 0.15 rivermiles downstream from the Route 644 bridge, and continues downstream to its confluence with Wolftrap Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aDIF-DR1-SOS, 1aDIF-DR2-SOS, 1aDIF-DR4-SOS, 1aDIF-DR25-SOS, and 1aDIF-DR31-SOS all find medium probability of adverse conditions. As a result, 8.32 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Colvin Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_COV02A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.98 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Colvin Run

RIVER MILE: 1.98

LATITUDE: 38.95583 **LONGTITUDE:** -77.35111

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with an unnamed tributary that flows from Lake Anne.

RIVER MILE: 0.00

LATITUDE: 38.96389 **LONGTITUDE:** -77.32417

Segment begins at the headwaters of Colvin Run and continues downstream to its confluence with an unnamed tributary flowing from Lake Anne.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aCOV-DR28-SOS finds medium probability of adverse conditions. As a result, 1.98 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Little Difficult Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_LID01A02 **TMDL MAP ID:**

SEGMENT SIZE: 4.25 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Little Difficult Run

RIVER MILE: 4.25

LATITUDE: 38.90417 **LONGTITUDE:** -77.37889

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Difficult Run.

RIVER MILE: 0.00

LATITUDE: 38.92028 **LONGTITUDE:** -77.31667

Segment begins at the headwaters of Little Difficult Run and continues downstream to its confluence with Difficult Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aLID-DR22-SOS and 1aLID-DR23-SOS both find medium probability of adverse conditions. As a result, 4.25 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Wolftrap Creek

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_WOT01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.58 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Old Courthouse Spring Branch to Wolftrap Creek

RIVER MILE: 2.58

LATITUDE: 38.93944 **LONGTITUDE:** -77.26250

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Difficult Run

RIVER MILE: 0.00

LATITUDE: 38.96222 **LONGTITUDE:** -77.28778

Segment begins at the confluence of Old Courthouse Spring Branch to Wolftrap Creek and continues downstream to its confluence with Difficult Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen Monitoring Stations 1aWOT-DR6-SOS, 1aWOT-DR8-SOS, and 1aWOT-12-ANS find medium probability of adverse conditions. As a result, 2.58 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Scott Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_SCO01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.88 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Scott Run

RIVER MILE: 2.88

LATITUDE: 38.93361 **LONGTITUDE:** -77.21028

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.96833 **LONGTITUDE:** -77.20167

Segment begins at the confluence of an unnamed tributary to Scott Run, near the intersection of the Beltway and the Dulles Access Road, and continues downstream to the confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aSCO-SCOT1-SOS finds medium probability of adverse conditions. As a result, 2.88 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: South Fork Little Difficult Run

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_SOL01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.71 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of South Fork Little Difficult Run

RIVER MILE: 2.71

LATITUDE: 38.88333 **LONGTITUDE:** -77.36583

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Little Difficult Run

RIVER MILE: 0.00

LATITUDE: 38.90972 **LONGTITUDE:** -77.33722

Segment begins at the headwaters of South Fork Little Difficult Run and continues downstream to its confluence with Little Difficult Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen Monitoring Station 1aSFR*-DR24-SOS finds medium probability of adverse conditions. As a result, 2.71 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Colvin Run, UT

HYDROLOGIC UNIT: 02070008

SEGMENT ID.: VAN-A11R_XJJ01A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.56 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Outlet from Lake Anne

RIVER MILE: 0.56

LATITUDE: 38.96472 **LONGTITUDE:** -77.33361

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Colvin Run above Lake Fairfax

RIVER MILE: 0.00

LATITUDE: 38.96389 **LONGTITUDE:** -77.32417

Segment begins at the outlet from Lake Anne and continues downstream to the confluence with Colvin Run above Lake Fairfax.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen Monitoring Station 1aCOL*-DR20-SOS finds high probability of adverse conditions. As a result, 0.56 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Arlington, Alexandria, City of

STREAM NAME: Four Mile Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A12E_FOU01A00 **TMDL MAP ID:** VAN-A12E-01

SEGMENT SIZE: 0.25 - Sq. Mi.

INITIAL LISTING: 1996 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Upstream limit of tidal waters

RIVER MILE: ~1.46

LATITUDE: 38.84389 **LONGTITUDE:** -77.06972

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River at State Line.

RIVER MILE: 0.00

LATITUDE: 38.84111 **LONGTITUDE:** -77.04667

Segment includes the tidal waters of Four Mile Run from rivermile 1.46 (approximately) downstream to the confluence with the Potomac River at the state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - PCBs	Unknown
Sediments - Chlordane	
Ammonia	

SUMMARY:

Sufficient fecal coliform bacteria exceedances (13 of 53 samples - 24.5%) were recorded at DEQ's ambient water quality monitoring station 1AFOU000.19 at the George Washington Parkway to assess this stream segment as partially supporting of the Clean Water Act's (CWA's) Swimmable Use goal for the 2002 305(b) report.

Exceedance of the human health-risk based screening value (SV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in fish tissue was recorded in three species of fish samples collected in 1997 at monitoring station 1AFOU000.45 (brown bullhead catfish, white perch, largemouth bass). As a result, the waters were assessed as partially supporting of the CWA's Fish Consumption Use goal for the 2002 305(b) report.

This stream segment is also assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal for the following reasons:

1) The ER-M criteria for chlordane (6 ppb dry weight) was exceeded in a sediment sample collected in June 1999 at monitoring station 1AFOU000.19;

2) One exceedances of the acute ammonia water quality criteria standard was recorded at monitoring station 1AFOU000.19 (June 2000).

Note: Four Mile Run is designated as nutrient enriched waters (NEW-7) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. DEQ monitoring data for the 2002 water quality assessment period indicates that this segment is fully supporting of the Aquatic Life Use goal with respect to nutrients.

This segment was first listed for a swimming use impairment due to fecal coliform bacteria exceedances in the 1998 303(d) report. A fecal coliform TMDL is scheduled to be developed by 2010. The TMDL to address the fish consumption use impairment may extend to 2014.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax, Arlington

STREAM NAME: Pimmit Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A12R_PIM01A00 **TMDL MAP ID:** VAN-A12R-02

SEGMENT SIZE: 7.38 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Pimmit Run

RIVER MILE: 7.38

LATITUDE: 38.90222 **LONGTITUDE:** -77.20528

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.92861 **LONGTITUDE:** -77.11639

Segment begins at the headwaters of Pimmit Run and continues downstream to its confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic) - 5.75 miles, Phosphorous	Unknown

SUMMARY:

Sufficient fecal coliform bacteria exceedances were recorded at DEQ's water quality monitoring stations at the Route 309 bridge (1aPIM004.16; 5 of 18 samples - 27.8%) and the Route 120 bridge (1aPIM000.15; 7 of 48 samples - 14.6%) to assess 5.75 miles as not supporting and 1.63 miles as partially supporting of the Clean Water Act's (CWA) Swimmable Use goal for the 2002 305(b) report. The segment is considered not supporting from the headwaters of Pimmit Run downstream to the confluence with Little Pimmit Run. It is considered partially supporting from the confluence of Little Pimmit Run downstream to the confluence with the Potomac River.

5.75 miles of this stream segment, from the headwaters to the confluence with Little Pimmit Run, are also assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report for the following reasons: (1) Sufficient exceedances of the phosphorous screening value (200 ug/L) recorded at station 1APIM004.16 (2 of 18 samples - 11.1%) ; (2) Citizen monitoring stations 1aPIM-PIM2-SOS and 1aPIM-PIM3-SOS both find medium probability of adverse conditions.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Tripps Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A13R_TRI01A00 **TMDL MAP ID:**

SEGMENT SIZE: 2.79 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Tripps Run

RIVER MILE: 3.69

LATITUDE: 38.87917 **LONGTITUDE:** -77.17833

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Lake Barcroft

RIVER MILE: 0.90

LATITUDE: 38.85472 **LONGTITUDE:** -77.15833

Segment begins at the headwaters of Tripps Run and continues downstream to the start of Lake Barcroft.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

A single biological survey using RBP II protocols was conducted at station 1aTRI001.88 at the Holloway Road (upstream of Route 613) on 7/22/99. It was determined that the benthic community in the stream is moderately impaired. As a result, the segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal for the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Holmes Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A13R_HOR01B00 **TMDL MAP ID:**

SEGMENT SIZE: 5.86 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Holmes Run

RIVER MILE: 11.04

LATITUDE: 38.82028 **LONGTITUDE:** -77.20250

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Lake Barcroft

RIVER MILE: 5.18

LATITUDE: 38.80750 **LONGTITUDE:** -77.11194

Segment begins at the headwaters of Holmes Run and continues downstream to the start of Lake Barcroft.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

A single biological survey using RBP II protocols was conducted at station 1aHOR005.48 at the Route 613 bridge on 8/2/99. It was determined that the benthic community in the stream is moderately impaired. As a result, the segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal for the 2002 305(b) report. Citizen monitoring stations 1AHOR-CAM1-SOS and 1AHOR-CAM2-SOS, located within the delineated stream segment, both find high probability of adverse conditions for biota.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax, Alexandria, City of

STREAM NAME: Backlick Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A13R_BAL01A00 **TMDL MAP ID:** VAN-A13R-01

SEGMENT SIZE: 6.45 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Backlick Run

RIVER MILE: 6.45

LATITUDE: 38.82028 **LONGTITUDE:** -77.20278

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Holmes Run

RIVER MILE: 0.00

LATITUDE: 38.80750 **LONGTITUDE:** -77.11194

Segment begins at the headwaters of Backlick Run, approximately 0.74 rivermiles upstream of Route 620, downstream to its confluence with Holmes Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Sediments - Silver	Unknown

SUMMARY:

Sufficient fecal coliform bacteria exceedances (4 of 22 samples - 18.2%) were recorded at DEQ's ambient water quality monitoring station 1aBAL001.40 at Van Dorn Street to assess this stream segment as partially supporting of the Clean Water Act's (CWA) Swimmable Use goal for the 2002 305(b) report.

The ER-M criteria for Silver (3.7 ppm, dry weight) was exceeded in a sediment sample collected in July, 1997, at the same monitoring station. As a result, this stream segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Dogue Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A14E_DOU01A00 **TMDL MAP ID:**

SEGMENT SIZE: 0.97 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream limit of tidal waters

RIVER MILE: ~2.1

LATITUDE: 38.71250 **LONGTITUDE:** -77.12972

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.69139 **LONGTITUDE:** -77.11417

Segment includes all tidal waters of Dogue Creek, extending from rivermile 2.1 (approximately) to the confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a, Ammonia	Unknown

SUMMARY:

The DEQ maintains an ambient monitoring station (1aDOU000.60) across from the Mt. Vernon Yacht Club. This segment is considered fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal for the 2002 305(b) report due to exceedances of the acute ammonia criteria and the chlorophyll a screening level. One exceedance of the acute ammonia criteria occurred in July 96; 9 of 21 samples (43%) exceeded the chlorophyll a screening level of 50 ug/L.

Note: This segment was assessed as partially supporting of the Clean Water Act's (CWA's) Fish Consumption Use goal in the 2002 305(b) report based on a Health Advisory issued by the Virginia Department of Health (VDH). This segment is nested within the 20.3 square mile area (approximately) covered by the VDH fish consumption advisory. See the fact sheet for the Virginia tidal waters from the Woodrow Wilson Bridge to Brent Point at the mouth of Aquia Creek for discussion of the Health Advisory issued by VDH

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Little Hunting Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A14E_LIF01A00 **TMDL MAP ID:** VAN-A14E-01

SEGMENT SIZE: 0.24 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Upstream limit of tidal waters

RIVER MILE: ~1.7

LATITUDE: 38.73111 **LONGTITUDE:** -77.08139

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.71028 **LONGTITUDE:** -77.07639

Segment includes all tidal waters of Little Hunting Creek, extending from approximately rivermile 1.7 downstream to the confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Fish Tissue - PCBs	VDH Fish Consumption Advisory
Sediments - Chlordane, Chlorophyll a	

SUMMARY:

DEQ maintains an ambient monitoring station (1aLIF000.19) at the George Washington Parkway and a Fish tissue/Sediment Station (1aLIF000.01). The sampling data from these stations revealed the following during the 2002 305(b) report assessment period:

1) Partially supporting of the Clean Water Acts (CWA's) Fish Consumption Use goal due to a Health Advisory issued by the Virginia Department of Health (VDH) for PCB's in fish tissue. This segment is nested within the 20.3 square mile area (approximately) covered by the VDH fish consumption advisory. See the fact sheet for the Virginia tidal waters from the Woodrow Wilson Bridge to Brent Point at the mouth of Aquia Creek for discussion of the Health Advisory issued by VDH.

Within this segment, fish tissue data revealed exceedances of the human health-risk based screening value (SV) of 54 parts per billion (ppb) for polychlorinated biphenyls (PCBs) in one species in 1996 (shad) and five species in 2000 (largemouth bass, white perch, carp, channel catfish, American eel).

2) Fully supporting but threatened of the CWA's Aquatic Life Use goal due to the following reasons:
(a) The ER-M criteria for chlordane (6 ppb dry weight) was exceeded in sediment samples collected in 1996 and 2000;
(b) Seven of 15 samples (47%) exceeded the chlorophyll a screening value of 50 ug/L;

Little Hunting Creek is designated nutrient enriched waters (NEW-9) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. This segment is nested within the larger area affected by the NEW designation.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Little Hunting Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A14R_LIF20A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.25 - Miles, Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Little Hunting Creek

RIVER MILE: 3.95

LATITUDE: 38.75139 **LONGTITUDE:** -77.09556

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.71028 **LONGTITUDE:** -77.07639

Little Hunting Creek from its headwaters to the state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Little Hunting Creek is designated as nutrient enriched waters (NEW-9) in 9 VAC 25-260-350 of the Virginia Water Quality Standards from its headwaters to the state line. As a result, this segment is considered fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Gunston Cove

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15E_POH01A00 **TMDL MAP ID:**

SEGMENT SIZE: 1.79 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Rivermile 1.31

RIVER MILE: 1.31

LATITUDE: 38.67472 **LONGTITUDE:** -77.15556

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.66306 **LONGTITUDE:** -77.13472

Segment extends from rivermile 1.31 in Gunston Cove to confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a, Ammonia, NEW designation	Unknown

SUMMARY:

Data from the DEQ monitoring station (1aPOH000.21) at Buoy #3, midway into the Bay, resulted in an assessment of fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal for the 2002 305(b) report due to the following:

(1) One exceedance of the acute ammonia criteria occurred in July, 2000;

(2) 5 of 10 samples (50%) exceeded the chlorophyll a screening level of 50 ug/L;

In addition, Gunston Cove is designated as nutrient enriched waters (NEW-10) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. This designation also results in an assessment of fully supporting but threatened of the Aquatic Life Use goal for the 2002 305(b) report.

Note: This segment was assessed as partially supporting of the Clean Water Act's (CWA's) Fish Consumption Use goal in the 2002 305(b) report based on a Health Advisory issued by the Virginia Department of Health (VDH). This segment is nested within the 20.3 square mile area (approximately) covered by the VDH fish consumption advisory. See the fact sheet for the Virginia tidal waters from the Woodrow Wilson Bridge to Brent Point at the mouth of Aquia Creek for discussion of the Health Advisory issued by VDH.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Long Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15R_LOE01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.24 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Long Branch, at Rt. 651 (Guinea Road)

RIVER MILE: 2.24

LATITUDE: 38.82056 **LONGTITUDE:** -77.26250

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Accotink Creek

RIVER MILE: 0.00

LATITUDE: 38.80806 **LONGTITUDE:** -77.23222

Segment begins at the confluence of an unnamed tributary to Long Branch, at the Rt. 651 (Guinea Road) bridge, and continues downstream to the confluence with Accotink Creek at rivermile 14.32, just below Braddock Road.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aLOE-AC7-SOS and 1aLOE-AC8-SOS both find high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Accotink Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15R_ACO03A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.88 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Long Branch

RIVER MILE: 19.43

LATITUDE: 38.85500 **LONGTITUDE:** -77.25083

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Crook Branch

RIVER MILE: 18.55

LATITUDE: 38.84639 **LONGTITUDE:** -77.23889

Segment begins at the confluence of Long Branch with Accotink Creek, at Eakin Park, and continues downstream to the confluence with Crook Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aACO-AC9-SOS located in Eakin Park finds medium probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Accotink Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15R_ACO02A00 **TMDL MAP ID:** VAN-A15R-02

SEGMENT SIZE: 4.8 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - 2002

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Crook Branch

RIVER MILE: 18.55

LATITUDE: 38.84639 **LONGTITUDE:** -77.23889

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Lake Accotink

RIVER MILE: 13.75

LATITUDE: 38.80278 **LONGTITUDE:** -77.23111

Segment begins at the confluence of Crook Branch and Accotink Creek, upstream of the Route 846 bridge, and continues downstream to the start of Lake Accotink.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

General Standard (Benthic)

SUMMARY:

Fecal coliform bacteria exceedances were recorded in 42 of 92 samples (45.7%) collected at USGS station 01654000 at Route 620 (Braddock Road). As a result, this segment was assessed as not supporting of the Clean Water Act's (CWA) Swimmable Use goal for the 2002 305(b) report.

DEQ maintains an ambient water quality monitoring station (1aACO014.57) at the Route 620 bridge. Two of 19 (10.5%) fecal coliform exceedances were recorded at this station during the 2002 305(b) assessment period.

In addition, citizen monitoring at stations 1aACO-AC6-SOS and 1aACO-AC2-SOS both find a high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report.

A fecal coliform TMDL for Accotink Creek above Lake Accotink was developed and submitted to the U.S. EPA on April 26, 2002 and approved May 31, 2002. The sources of fecal coliform bacteria requiring reductions are dog and goose waste deposited on pervious and impervious surfaces, cat and duck waste deposited on pervious surfaces, and human sources including failing septic systems, leaking sewer lines and illicit sewer connections.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Long Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15R_LOA01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.68 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Long Branch

RIVER MILE: 2.68

LATITUDE: 38.88861 **LONGTITUDE:** -77.23528

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Accotink Creek in Eakin Park

RIVER MILE: 0.00

LATITUDE: 38.85500 **LONGTITUDE:** -77.25083

Segment begins at the headwaters of Long Branch and continues downstream to the confluence with Accotink Creek in Eakin Park at rivermile 19.46.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aLOE-AC4-SOS finds high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax, Fairfax City of

STREAM NAME: Crook Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A15R_CRK01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.25 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Crook Branch

RIVER MILE: 2.25

LATITUDE: 38.84361 **LONGTITUDE:** -77.27639

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Accotink Creek

RIVER MILE: 0.00

LATITUDE: 38.84667 **LONGTITUDE:** -77.23833

Segment begins at the headwaters of Crook Branch and continues downstream to the confluence with Accotink Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aCRK-AC1-SOS finds high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Pohick Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A16R_POH02A02 **TMDL MAP ID:**

SEGMENT SIZE: 4.95 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Pohick Creek

RIVER MILE: 14.18

LATITUDE: 38.78694 **LONGTITUDE:** -77.26583

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Middle Run to Pohick Creek

RIVER MILE: 9.23

LATITUDE: 38.74361 **LONGTITUDE:** -77.22528

Segment begins at the confluence of an unnamed tributary to Pohick Creek, at rivermile 14.18, and continues downstream to the confluence of Middle Run to Pohick Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aPOH-POH4-SOS and 1aPOH-POH6-SOS both find a high probability of adverse conditions. Citizen monitoring stations 1aPOH-POH3-SOS and 1aPOH-POH8-SOS both find medium probability of adverse conditions. As a result, this stream segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Sideburn Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A16R_SID01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.21 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Sideburn Branch

RIVER MILE: 3.46

LATITUDE: 38.82500 **LONGTITUDE:** -77.31472

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with an unnamed tributary

RIVER MILE: 1.25

LATITUDE: 38.79667 **LONGTITUDE:** -77.30611

Segment begins at the headwaters of Sideburn Branch and continues downstream to the confluence with an unnamed tributary which is the outlet from Lake Barton.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aSID-POH1-SOS finds medium probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Pohick Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A16R_POH03A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.45 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Rabbit Branch to Pohick Creek

RIVER MILE: 16.15

LATITUDE: 38.80167 **LONGTITUDE:** -77.28861

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Sideburn Branch with Pohick Creek

RIVER MILE: 15.7

LATITUDE: 38.79750 **LONGTITUDE:** -77.28444

Segment begins at the confluence of Rabbit Branch to Pohick Creek, adjacent to the railroad tracks, and continues downstream to the confluence of Sideburn Branch with Pohick Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aPOH-POH5-SOS finds high probability of adverse conditions. As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fauquier, Prince William

STREAM NAME: Cedar Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A17R_CER01A02 **TMDL MAP ID:** VAN-A17R-01

SEGMENT SIZE: 28.23 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** - 2004

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Mill Run to Cedar Run

RIVER MILE: 28.23

LATITUDE: 38.71056 **LONGTITUDE:** -77.73500

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Occoquan River

RIVER MILE: 0.00

LATITUDE: 38.68778 **LONGTITUDE:** -77.48972

Segment begins at the confluence of Mill Run to Cedar Run and continues downstream to the confluence with the Occoquan River. Segment extends from watershed A17R through A18R in Fauquier and Prince William Counties.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus - 11.59	Unknown

SUMMARY:

The listing of this stream segment is based on data from the following DEQ monitoring stations: 1aCER0025.25 at Route 602; 1aCER016.46 at Route 806, 1aCER009.52 at Route 611, and 1aCER006.00 at Route 646. The monitoring data from these stations revealed the following during the 2002 305(b) report assessment period:

1) Not supporting of the Clean Water Act's (CWA) Swimming Use goal due to sufficient fecal coliform bacteria exceedances recorded at station 1aCER009.52 (3 of 11 samples - 27.3%) . A total of 5.94 rivermiles of the segment are considered not supporting, beginning at the confluence of Walnut Branch to Cedar Run and continuing downstream to the confluence of Goslin Run to Cedar Run.

2) Partially supporting of the CWA's Swimming Use goal due to sufficient fecal coliform bacteria exceedances recorded at stations 1aCER0025.25 (5 of 23 samples - 21.7%), 1aCER016.46 (4 of 24 samples - 16.7%), and 1aCER006.00 (10 of 49 samples - 20.4%). A total of 22.29 rivermiles of the segment are considered partially supporting, beginning at the confluence of Mill Run to Cedar Run and continuing downstream to the confluence with the Occoquan River. The 5.94-mile segment described in (1) above is excluded from the partially supporting determination.

3) Fully supporting but threatened of the CWA's Aquatic Life Use goal due to sufficient exceedances of the phosphorous screening value (SV) of 200 ug/L recorded at stations 1aCER016.46 (3 of 24 samples - 12.%) and 1aCER009.52 (2 of 11 samples - 18.2%). A total of 11.59 rivermiles of this segment are considered fully supporting but threatened due to phosphorous SV exceedances, beginning at the confluence of Turkey Run to Cedar Run and continuing downstream to the confluence of Goslin Run to Cedar Run.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Youngs Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A21R_YOU01A02 **TMDL MAP ID:**

SEGMENT SIZE: 5.64 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Youngs Branch

RIVER MILE: 5.64

LATITUDE: 38.79639 **LONGTITUDE:** -77.57556

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Bull Run

RIVER MILE: 0.00

LATITUDE: 38.81667 **LONGTITUDE:** -77.50556

Segment begins at the headwaters of Youngs Branch and continues downstream to the confluence with Bull Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aYOU-4-ANS, 1aYOU-5-ANS, and 1aYOU-15-ANS all find medium probability of adverse conditions. As a result, 5.64 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Big Rocky Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A22R_BIR01A02 **TMDL MAP ID:**

SEGMENT SIZE: 4.03 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Big Rocky Run

RIVER MILE: 4.03

LATITUDE: 38.86056 **LONGTITUDE:** -77.41889

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Cub Run

RIVER MILE: 0.00

LATITUDE: 38.82833 **LONGTITUDE:** -77.45806

Segment begins at the confluence of an unnamed tributary with Big Rocky Run and continues downstream to the confluence with Cub Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aBIR-CR5-SOS and 1aBIR-10-ANS find medium and high probability, respectively, of adverse conditions. As a result, 4.03 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William, Fairfax

STREAM NAME: Bull Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A23R_BUL01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.31 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of Popes Head Creek to Bull Run

RIVER MILE: 6.71

LATITUDE: 38.77278 **LONGTITUDE:** -77.41417

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence of Buckhall Branch

RIVER MILE: 4.40

LATITUDE: 38.75028 **LONGTITUDE:** -77.41000

Segment begins at the confluence of Popes Head Creek with Bull Run and continues downstream to the confluence of Buckhall Branch with Bull Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Sediments - PCBs and DDT	Unknown

SUMMARY:

The ER-M criteria for polychlorinated biphenyls (PCBs) (180 ppm, dry weight) and DDT (7 ppm, dry weight) were exceeded in sediment samples collected in 1997 at the DEQ sediment monitoring station 1aBUL006.64. As a result, this stream segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Piney Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A23R_PIY01A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.68 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Piney Branch

RIVER MILE: 1.68

LATITUDE: 38.81778 **LONGTITUDE:** -77.36583

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Popes Head Creek

RIVER MILE: 0.00

LATITUDE: 38.79667 **LONGTITUDE:** -77.35556

Segment begins at the confluence of an unnamed tributary to Piney Branch, approx. 0.23 rivermiles upstream from Popes Head Road, and continues downstream to the confluence with Popes Head Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aPIY-17-ANS finds medium probability of adverse conditions. As a result, 1.68 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Popes Head Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A23R_POE02A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.33 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary to Popes Head Creek

RIVER MILE: 5.25

LATITUDE: 38.79861 **LONGTITUDE:** -77.35000

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Piney Branch

RIVER MILE: 4.92

LATITUDE: 38.79667 **LONGTITUDE:** -77.35556

Segment begins at the confluence of an unnamed tributary to Popes Head Creek, approx. 0.13 rivermiles upstream from Fairfax Station Road, and continues downstream to the confluence with Piney Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aPOE-18-ANS finds medium probability of adverse conditions. As a result, 0.33 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Piney Branch, UT

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A23R_XJL01A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.25 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary

RIVER MILE: 0.25

LATITUDE: 38.80889 **LONGTITUDE:** -77.36694

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Piney Branch

RIVER MILE: 0.00

LATITUDE: 38.81167 **LONGTITUDE:** -77.36306

Segment begins at the headwaters of the unnamed tributary and continues downstream to the confluence with Piney Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aPYB*-A01-ANS finds medium probability of adverse conditions. As a result, 0.25 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Hooes Run

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A24R_HOO01A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.05 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Outlet from Lake Omiscol

RIVER MILE: 1.05

LATITUDE: 38.67389 **LONGTITUDE:** -77.30000

DOWNSTREAM LIMIT:

DESCRIPTION: Beginning of the inundated waters of the Occoquan Reservoir

RIVER MILE: 0.00

LATITUDE: 38.68222 **LONGTITUDE:** -77.28667

Segment begins at the outlet from Lake Omiscol and continues downstream to the beginning of the inundated waters of the Occoquan Reservoir.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aHOO-1-ANS, located 1/2 mile upstream from Old Bridge Road, finds high probability of adverse conditions. As a result, 1.05 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Belmont and Occoquan Bays

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25E_OCC20A02 **TMDL MAP ID:**

SEGMENT SIZE: 9.22 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream liimit of Belmont Bay

RIVER MILE: 4.10

LATITUDE: 38.65556 **LONGTITUDE:** -77.22639

DOWNSTREAM LIMIT:

DESCRIPTION: State line at the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.60611 **LONGTITUDE:** -77.22389

Belmont and Occoquan Bays from their headwaters to the state line.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Belmont and Occoquan Bays are designated nutrient enriched waters (NEW-11) in 9 VAC 25-260-350 of the Virginia Water Quality Standards.

Note: This segment is nested within the 20.3 square mile area (approximately) covered by a Health Advisory issued by the Virginia Department of Health (VDH) for fish consumption. See the fact sheet for the Virginia tidal waters from the Woodrow Wilson Bridge to Brent Point at the mouth of Aquia Creek for discussion of the Health Advisory issued by VDH.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Cow Branch, UT

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_XJP01A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.37 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary

RIVER MILE: 0.37

LATITUDE: 38.65222 **LONGTITUDE:** -77.30278

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Cow Branch

RIVER MILE: 0.00

LATITUDE: 38.31972 **LONGTITUDE:** -77.29528

Segment extends from headwaters of the unnamed tributary to the confluence with the retention pond located on Cow Branch. The unnamed tributary flows into the pond from the north.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient exceedances of the phosphorous screening value (SV) of 200 ug/L were recorded at the USGS monitoring station 01657875 to assess this segment as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report. Nine of 23 samples (39.1%) exceeded the phosphorous SV during the assessment period.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Cow Branch, UT

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_XJQ01A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.24 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary

RIVER MILE: 0.24

LATITUDE: 38.65778 **LONGTITUDE:** -77.29278

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Cow Branch

RIVER MILE: 0.00

LATITUDE: 38.65278 **LONGTITUDE:** -77.29361

Segment extends from headwaters of the unnamed tributary to the confluence with the retention pond located on Cow Branch. The unnamed tributary flows into the pond from the west/southwest.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient exceedances of the phosphorous screening value (SV) of 200 ug/L were recorded at the USGS monitoring station 01657870 to assess this segment as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report. Two of 11 samples (18.2%) exceeded the phosphorous SV during the assessment period.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Neabsco Creek, UT

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_XJO01A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.49 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary

RIVER MILE: 1.49

LATITUDE: 38.64361 **LONGTITUDE:** -77.32333

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Neabsco Creek

RIVER MILE: 0.00

LATITUDE: 38.62583 **LONGTITUDE:** -77.31111

Segment begins at the headwaters of the unnamed tributary and continues downstream to the confluence with Neabsco Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring station 1aNEA-1-SOS finds medium probability of adverse conditions. As a result, this stream segment was assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Neabsco Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_NEA20A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.42 - Miles, Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Neabsco Creek

RIVER MILE: 13.08

LATITUDE: 38.67556 **LONGTITUDE:** -77.36722

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Occoquan Bay

RIVER MILE: 0.00

LATITUDE: 38.59944 **LONGTITUDE:** -77.25556

Segment starts at the headwaters of Neabsco Creek and continues downstream to the confluence with the Occoquan Bay. Excludes segments where nutrient monitoring indicates full use support.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Neabsco Creek is designated as nutrient enriched waters (NEW-13) in 9 VAC 25-260-350 of the Virginia Water Quality Standards from its headwaters to the state line. As a result, this segment is considered fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report. This segment does not include the monitored portion of Neabsco Creek where nutrient data indicates full support of the Aquatic Life Use goal. This monitored segment begins at the confluence of an unnamed tributary to Neabsco Creek near Dale City (approximately 0.4 rivermiles downstream from Rt. 784) downstream to the start of the tidal waters of Neabsco Creek/Bay.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Cow Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_CWB02A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.43 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of the unnamed tributary

RIVER MILE: 3.87

LATITUDE: 38.65472 **LONGTITUDE:** -77.30222

DOWNSTREAM LIMIT:

DESCRIPTION: Start of the stormwater retention pond on Cow Branch

RIVER MILE: 3.44

LATITUDE: 38.65333 **LONGTITUDE:** -77.29528

Segment begins at the headwaters of Cow Branch and continues downstream to the beginning of the stormwater retention pond to the north of the Prince William County Parkway. Cow Branch is a unnamed tributary to Neabsco Creek on the Occoquan quad.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient exceedances of the phosphorous screening value (SV) of 200 ug/L were recorded at the USGS monitoring station 01657865 to assess this segment as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report. Seventeen of 26 samples (65.4%) exceeded the phosphorous SV during the assessment period.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Fairfax

STREAM NAME: Mills Branch

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_WLB01A02 **TMDL MAP ID:** VAN-A25R-02

SEGMENT SIZE: 1.81 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2014

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Mills Branch

RIVER MILE: 1.81

LATITUDE: 38.70139 **LONGTITUDE:** -77.24944

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Occoquan River

RIVER MILE: 0.00

LATITUDE: 38.67972 **LONGTITUDE:** -77.25306

Segment includes all of Mills Branch from the headwaters downstream to the confluence with the Occoquan River. Mills Branch is an unnamed tributary on the Occoquan/Ft. Belvoir quads. It is channeled, flowing under the Fairfax County I-95 Landfill in Lorton, VA.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus, Sediment - DDT	Unknown

SUMMARY:

The DEQ maintains an ambient water quality monitoring station (1aWLB000.06) in the Occoquan Regional Park. The monitoring data from this station revealed the following during the 2002 305(b) report assessment period:

1) Partially supporting of the Clean Water Act's Swimming Use goal due to sufficient fecal coliform bacteria exceedances (5 of 20 samples - 25%);

2) Fully supporting but threatened of the CWA's Aquatic Life Use goal due to the following:
(a) sufficient exceedances of the phosphorous screening value of 200 ug/L (7 of 20 samples - 35%);
(b) The ER-M criteria for DDT (7 ppb dry weight) was exceeded in sediment collected in June, 1997.

The source of impairments is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Neabsco Creek

HYDROLOGIC UNIT: 02070010

SEGMENT ID.: VAN-A25R_NEA01A00 **TMDL MAP ID:** VAN-A25R-01

SEGMENT SIZE: 8.8 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** - 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 11.30

LATITUDE: 38.65444 **LONGTITUDE:** -77.37111

DOWNSTREAM LIMIT:

DESCRIPTION: Start of the tidal waters of Neabsco Creek

RIVER MILE: ~2.5

LATITUDE: 38.61000 **LONGTITUDE:** -77.28417

Segment begins at the confluence of an unnamed tributary to Neabsco Creek near Dale City (approximately 0.4 rivermiles downstream from Rt. 784) downstream to the start of the tidal waters of Neabsco Creek/Bay.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

Sufficient fecal coliform bacteria exceedances (5 of 23 samples - 21.7%) were recorded at DEQ's ambient water quality monitoring station (1aNEA002.89) at the Route 1 bridge to assess this stream segment as partially supporting of the Clean Water Act's (CWA's) Swimmable Use goal for the 2002 305(b) report.

Citizen monitoring stations 1aNEA-SOS and 1aNEA-N1-SOS find medium and high probability, respectively, of adverse conditions. As a result, this stream segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal.

Note: Neabsco Creek is designated as nutrient enriched waters (NEW-13) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. DEQ water quality monitoring data for the 2002 water quality assessment period indicates that this segment is fully supporting of the Aquatic Life Use goal with respect to nutrients.

The source of impairment is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Little Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A26R_LIE01A02 **TMDL MAP ID:**

SEGMENT SIZE: 3.78 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Little Creek

RIVER MILE: 3.78

LATITUDE: 38.55056 **LONGTITUDE:** -77.34111

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River

RIVER MILE: 0.00

LATITUDE: 38.52250 **LONGTITUDE:** -77.28694

Segment begins at the headwaters of Little Creek and extends downstream to the confluence with the Potomac River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Sufficient exceedances of the phosphorous screening value (SV) of 200 ug/L were recorded at the USGS monitoring stations located at Mockingbird Road in Triangle (01658698) and Geiger Road in Quantico (01658705) to assess this segment as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report. The exceedance rate of the phosphorous SV was 11 of 29 samples (37.9%) at station 01658698, and 14 of 30 samples (46.7%) at 01658705.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Prince William

STREAM NAME: Powells Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A26R_POW02A02 **TMDL MAP ID:**

SEGMENT SIZE: 3.56 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 12.77

LATITUDE: 38.63861 **LONGTITUDE:** -77.40139

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Lake Montclair.

RIVER MILE: 9.21

LATITUDE: 38.61833 **LONGTITUDE:** -77.36000

Segment starts at the confluence of an unnamed tributary with Powells Creek, at rivermile 12.77, and continues downstream to the beginning of Lake Montclair.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

Citizen monitoring stations 1aPOW-11-ANS and 1aPOW-16-ANS both find medium probability of adverse conditions. As a result, 3.56 stream miles were assessed as fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Smith Lake (Aquia Reservoir)

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A27L_AUA01A02 **TMDL MAP ID:**

SEGMENT SIZE: 110 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Beginning of inundated waters on Aquia Creek arm of Smith Lake

RIVER MILE: 13.20

LATITUDE: 38.48972 **LONGTITUDE:** -77.41500

DOWNSTREAM LIMIT:

DESCRIPTION: Discharge from lake

RIVER MILE: 11.64

LATITUDE: 38.48694 **LONGTITUDE:** -77.39833

Segment begins at the start of the inundated waters on the Aquia Creek arm of Smith Lake and extends to the discharge of the lake. Acreage is approximate.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Copper	Unknown

SUMMARY:

One exceedance of the acute copper criterion was recorded at DEQ's monitoring station (1aAUA012.15) in the Smith Lake (Aquia Reservoir). As a result, this segment was assessed as fully supporting but threatened of the Clean Water Act's (CWA's) Aquatic Life Use goal in the 2002 305(b) report.

In addition, the waters are designated as nutrient enriched waters (NEW-6) in 9 VAC 25-260-350 of the Virginia Water Quality Standards resulting in an assessment of fully supporting but threatened of the CWA's Aquatic Life Use goal. This segment is nested within the larger area affected by the NEW designation.

The source of copper may be due to addition of copper sulfate for algal control.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Cannon Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A27R_CNN01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.85 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence of an unnamed tributary

RIVER MILE: 2.85

LATITUDE: 38.51389 **LONGTITUDE:** -77.50694

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Aquia Creek

RIVER MILE: 0.00

LATITUDE: 38.48722 **LONGTITUDE:** -77.48500

Segment begins at the confluence of an unnamed tributary to Cannon Creek, at rivermile 2.85, and continues downstream to the confluence with Aquia Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Iron, Manganese	Unknown

SUMMARY:

The iron and manganese taste and odor water quality criteria were exceeded at USGS monitoring station 01660380 near Garrisonville in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the Clean Waters Act's Drinking Water Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Aquia Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A27R_AUA01A00 **TMDL MAP ID:**

SEGMENT SIZE: 14.73 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Aquia Creek

RIVER MILE: 19.88

LATITUDE: 38.51694 **LONGTITUDE:** -77.60389

DOWNSTREAM LIMIT:

DESCRIPTION: Start of Smith Lake

RIVER MILE: 13.29

LATITUDE: 38.49000 **LONGTITUDE:** -77.41500

Segment starts at the headwaters of Aquia Creek and continues downstream to the start of Smith Lake.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Supply - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Iron, Manganese	Unknown

SUMMARY:

The iron and manganese taste and odor water quality criteria were exceeded in samples collected on 3/29/99 and 7/13/96 at DEQ monitoring station 1aAUA014.51 at Route 641, and at USGS station 01660350 at Route 610, respectively. At both stations, the water quality criteria were exceeded in one of one sample during the assessment period. As a result, the segment was assessed as fully supporting but threatened of the Clean Waters Act's (CWA's) Drinking Water Use goal in the 2002 305(b) report.

Note: Aquia Creek is designated as nutrient enriched waters (NEW-8) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. DEQ monitoring data for the 2002 water quality assessment period indicates this segment is fully supporting of the Aquatic Life Use goal with respect to nutrients.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Aquia Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A28E_AUA01A00 **TMDL MAP ID:**

SEGMENT SIZE: 0.53 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Rivermile 4.28

RIVER MILE: 4.28

LATITUDE: 38.43056 **LONGTITUDE:** -77.35750

DOWNSTREAM LIMIT:

DESCRIPTION: Rivermile 3.24

RIVER MILE: 3.24

LATITUDE: 38.41833 **LONGTITUDE:** -77.34889

Segment extends from rivermile 4.28 to rivermile 3.28 in Aquia Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

The DEQ maintains an ambient water quality monitoring station (1aAUA003.71) at the railroad crossing over Aquia Creek. The monitoring data from this station revealed that this segment is fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report due to exceedances of the chlorophyll a screening level. Nine of 18 samples (50%) exceeded the chlorophyll a screening level of 50 ug/L. In addition, the waters are designated as nutrient enriched waters (NEW-6) in 9 VAC 25-260-350 of the Virginia Water Quality Standards. This segment is nested within the larger area affected by the NEW designation.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Aquia Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A28R_AUA20A02 **TMDL MAP ID:**

SEGMENT SIZE: 12.98 - Miles, Sq. Mi., Ac

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Beginning of inundated waters on Aquia Creek arm of Smith Lake

RIVER MILE: 13.20

LATITUDE: 38.48972 **LONGTITUDE:** -77.41500

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River at State Line

RIVER MILE: 0.00

LATITUDE: 38.39111 **LONGTITUDE:** -77.30972

Aquia Creek from its headwaters to the state line. Excludes segments where nutrient monitoring indicates full use support.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Aquia Creek is designated as nutrient enriched waters (NEW-6) in 9 VAC 25-260-350 of the Virginia Water Quality Standards from its headwaters to the state line. As a result, this segment is considered fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report. This segment does not include the monitored portion of Aquia Creek where nutrient data indicates full support of the Aquatic Life Use goal. This monitored segment includes Aquia Creek above Smith Lake (Aquia Reservoir).

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford

STREAM NAME: Abel Lake Reservoir (Potomac Creek)

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A29L_POM01A02 **TMDL MAP ID:**

SEGMENT SIZE: 26 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Start of the artificial path confluence of Long Branch

RIVER MILE: 13.20

LATITUDE: 38.39167 **LONGTITUDE:** -77.48250

DOWNSTREAM LIMIT:

DESCRIPTION: Lake discharge

RIVER MILE: 13.0

LATITUDE: 38.39000 **LONGTITUDE:** -77.47944

Segment includes the lower portion of Abel Lake from the start of the artificial path confluence of Long Branch to Potomac Creek down to the lake discharge point. Acreage is estimated.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Copper in Water	Unknown

SUMMARY:

One exceedance of the acute copper criterion was recorded at DEQ's monitoring station (1aPOM013.02) in Abel Lake. As a result, approximately 26 acres of this segment was assessed as fully supporting but threatened of the CWA's Aquatic Life Use goal in the 2002 305(b) report.

This segment is also designated as nutrient enriched waters (NEW-12) in 9 VAC 25-260-350 of the Virginia Water Quality Standards resulting in an assessment of fully supporting but threatened of the CWA's Aquatic Life Use goal. This segment is nested within the larger area affected by the NEW designation.

The source of copper may be due to addition of copper sulfate for algal control.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Stafford, King George

STREAM NAME: Potomac Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A29R_POM20A02 **TMDL MAP ID:**

SEGMENT SIZE: 8.2 - Miles, Sq. Mi., Acre

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Potomac Creek

RIVER MILE: 16.37

LATITUDE: 38.38944 **LONGTITUDE:** -77.53556

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with the Potomac River at the state line

RIVER MILE: 0.00

LATITUDE: 38.34722 **LONGTITUDE:** -77.28667

Potomac Creek from its headwaters to the state line. Excludes segments where nutrient monitoring indicates full use support.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Potomac Creek is designated as nutrient enriched waters (NEW-12) in 9 VAC 25-260-350 of the Virginia Water Quality Standards from its headwaters to the state line. As a result, this segment is considered fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report. This segment does not include the monitored portion of Potomac Creek where nutrient data indicates full support of the Aquatic Life Use goal. These monitored segments include the 2.23-mile free-flowing segment beginning upstream from Route 608 at the railroad crossing downstream to the east end of swamp, and the 0.59 square mile area extending to a half-mile radius around DEQ monitoring station 1aPOM002.41 in the embayment.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: King George

STREAM NAME: Williams Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAN-A30R_WLL20A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.62 - Miles, Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Headwaters of Williams Creek

RIVER MILE: 4.54

LATITUDE: 38.36306 **LONGTITUDE:** -77.08611

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Upper Machodoc Creek

RIVER MILE: 0.00

LATITUDE: 38.32167 **LONGTITUDE:** -77.05250

Segment begins at the headwaters of Williams Creek and continues downstream to the confluence of an unnamed tributary to Williams Creek, approximately 0.1 rivermiles downstream of Route 624.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE: **IMPAIRMENT SOURCE**

Nutrient Enriched Waters designation

SUMMARY:

Williams Creek is designated as nutrient enriched waters (NEW-14) in 9 VAC 25-260-350 of the Virginia Water Quality Standards from its headwaters to the confluence with Upper Machodoc Creek. As a result, this segment is considered fully supporting but threatened of the Clean Water Act's Aquatic Life Use goal in the 2002 305(b) report.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Westmoreland

STREAM NAME: Monroe Bay

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A31E_MON01A00 **TMDL MAP ID:** VAP-A31E-09

SEGMENT SIZE: 2.46 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit

RIVER MILE:

LATITUDE: 38.23080 **LONGTITUDE:** -76.98760

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Potomac River

RIVER MILE: 0.00

LATITUDE: 38.21800 **LONGTITUDE:** -76.95540

Estuarine portion of Monroe Bay

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

Evaluated fully supporting but threatened of the Aquatic Life use support goal based on chlorophyll_a violation rates of 2/17 and 1/1 at 1AMON001.91 and 1AMON000.96, respectively.

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Westmoreland

STREAM NAME: Mattox Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A31E_MAO01A98 **TMDL MAP ID:** VAP-A31E-06

SEGMENT SIZE: 0.64 - Sq. Mi.

INITIAL LISTING: 1996 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Tidal limit (Route 205 bridge)

RIVER MILE: 4.10

LATITUDE: 38.19920 **LONGTITUDE:** -77.00750

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 1.00

LATITUDE: 38.21080 **LONGTITUDE:** -76.97170

Described in VDH Notice and Description of Shellfish Condemnation Number 001B

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nickel	Contaminated Sediment

SUMMARY:

An exceedance of the NOAA ER-M screening value for Nickel was recorded in sediments collected at monitoring station 1AMAO004.08 on 5/18/1994. This exceedance resulted in an assessment of fully supporting but threatened of the Aquatic Life Use goal.

The source of the nickel in sediments is also considered unknown.

Additional sediment monitoring is necessary to confirm the presence of Nickel, better delineate the affected segment, and identify sources, if any.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Westmoreland

STREAM NAME: Mattox Creek

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A31E_MAO02A00 **TMDL MAP ID:** VAP-A31E-08

SEGMENT SIZE: 0.78 - Sq. Mi.

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary 001B, 9/14/1998

RIVER MILE: 1.00

LATITUDE: 38.21080 **LONGTITUDE:** -76.97170

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Potomac River

RIVER MILE: 0.00

LATITUDE: 38.22050 **LONGTITUDE:** -76.95690

Downstream of VDH Notice 001B, 9/14/1998

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Chlorophyll_a	Unknown

SUMMARY:

Evaluated fully supporting but threatened of the Aquatic Life use goal based on a chlorophyll_a violation rate of 2/10 at 1AMAO000.42

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Westmoreland

STREAM NAME: Monroe Bay

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A31E_MON03A98 **TMDL MAP ID:** VAP-A31E-05

SEGMENT SIZE: 0.28 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Upstream condemnation boundary

RIVER MILE: 1.23

LATITUDE: 38.23440 **LONGTITUDE:** -76.96610

DOWNSTREAM LIMIT:

DESCRIPTION: Downstream condemnation boundary

RIVER MILE: 0.46

LATITUDE: 38.22420 **LONGTITUDE:** -76.96390

Described in VDH Notice and Description of Shellfish Condemnation Number 001C

CLEAN WATER ACT GOAL AND USE SUPPORT:

Shellfishing Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
VDH Shellfish Restriction	Unknown

SUMMARY:

VDH-DSS Shellfish Condemnation 001C, 6/26/1999

Source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Westmoreland

STREAM NAME: Scates Branch

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A32R_SCA01A96 **TMDL MAP ID:** VAP-A32R-01

SEGMENT SIZE: 1.01 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Monitoring station at 1ASCA001.39

RIVER MILE: 1.39

LATITUDE: 38.08640 **LONGTITUDE:** -76.78700

DOWNSTREAM LIMIT:

DESCRIPTION: Mouth at Weavers Millpond

RIVER MILE: 0.00

LATITUDE: 38.09680 **LONGTITUDE:** -76.77560

Segment begins at monitoring station and extends downstream to Weavers Millpond (at confluence with Pierce Creek.)

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Sediments - PCBs	Unknown

SUMMARY:

ER-M criteria for PCB's was exceeded both times in sediment samples taken in 1984 and 1985. Historical data was used because the station was discontinued and no recent data exists.

The source of the impairment is considered unknown.

Additional sediment monitoring is necessary to determine if PCB in sediment is a continuing problem.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Northumberland

STREAM NAME: Little Wicomico River

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A34E_LIS03A98 **TMDL MAP ID:** VAP-A34E-21

SEGMENT SIZE: 0.06 - Sq. Mi.

INITIAL LISTING: 1998 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Midpoint, Sunnybank Ferry Route

RIVER MILE: 2.01

LATITUDE: 37.88850 **LONGTITUDE:** -76.26870

DOWNSTREAM LIMIT:

DESCRIPTION: Ferry Route

RIVER MILE: 1.99

LATITUDE: 37.88860 **LONGTITUDE:** -76.26840

Segment is restricted to approximately the ferry route.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Zinc	Unknown

SUMMARY:

The segment was listed as threatened of the aquatic life use goal on the 1998 303(d) list because of sediment monitoring performed 6/9/93 at 1ALIS00.00, located at the midpoint of the Sunnybank Ferry route. The assessment was based on a monitored zinc level equal to the NOAA ER-M value. Subsequent sediment testing on 8/14/1997 were below the applicable ER-M values.

The segment should be removed from the threatened list.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Northumberland

STREAM NAME: Coan Mill Stream

HYDROLOGIC UNIT: 02070011

SEGMENT ID.: VAP-A34R_CON01A00 **TMDL MAP ID:** VAP-A34R-01

SEGMENT SIZE: 1.53 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: UT Confluence

RIVER MILE: 1.53

LATITUDE: 37.92370 **LONGTITUDE:** -76.49750

DOWNSTREAM LIMIT:

DESCRIPTION: Coan River Confluence

RIVER MILE: 0.00

LATITUDE: 37.93830 **LONGTITUDE:** -76.48680

From the confluence with the unnamed tributary at river mile 1.52 downstream to the Coan River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Phosphorus	Unknown

SUMMARY:

Coan Mill Stream is assessed partially supporting of the Aquatic Life use goal based on a fecal coliform violation rate of 3/26 at Route 360 (1ACON000.96).

The same segment is considered threatened of the Aquatic Life use goal because of a phosphorus screening value exceedance rate of 3/26 at 1ACON000.96.

The source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Frederick

STREAM NAME: Little Isaacs Creek

HYDROLOGIC UNIT: 02070004

SEGMENT ID.: VAV-B05R_LIG01A00 **TMDL MAP ID:**

SEGMENT SIZE: 17.49 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 17.49

LATITUDE: 39.38500 **LONGTITUDE:** -78.30806

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Isaacs Creek

RIVER MILE: 0.00

LATITUDE: 39.31222 **LONGTITUDE:** -78.26972

Segment begins at the headwaters and ends at the confluence with Isaacs Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
Total Phosphorus	Point Source

SUMMARY:

1ALIG008.64 - 2 phosphorus violations out of 2 samples during the 2002 assessment period.

The source of the total phosphorus is believed to be from a municipal point source.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Frederick

STREAM NAME: Redbud Run

HYDROLOGIC UNIT: 02070004

SEGMENT ID.: VAV-B08R_RED01A00 **TMDL MAP ID:**

SEGMENT SIZE: 8.07 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 8.07

LATITUDE: 39.23056 **LONGTITUDE:** -78.16833

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Opequon Creek

RIVER MILE: 0.00

LATITUDE: 39.18750 **LONGTITUDE:** -78.07583

Segment begins at the headwaters and continues downstream to the confluence with Opequon Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

1ARED000.46 - Had a moderately impaired benthic rating but only one survey during the 2002 assessment period.

The source of the benthic rating is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta

STREAM NAME: Tunnel Hollow

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B13R_XEI02A02 **TMDL MAP ID:**

SEGMENT SIZE: 0.84 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the Headwaters

RIVER MILE: 0.84

LATITUDE: 38.31806 **LONGTITUDE:** -79.20056

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Moffett Creek

RIVER MILE: 0.00

LATITUDE: 38.30250 **LONGTITUDE:** -79.17806

Segment begins at the headwaters and ends at the confluence with Moffett Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

USFS Station 2021 had one visit and was moderately impaired during the 2002 assessment period.

The source of the rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Hone Quarry

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B18R_HQR01A00 **TMDL MAP ID:**

SEGMENT SIZE: 6.06 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 6.06

LATITUDE: 38.49083 **LONGTITUDE:** -79.19250

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Briery Branch

RIVER MILE: 0.00

LATITUDE: 38.44611 **LONGTITUDE:** -79.11417

Segment begins at the headwaters and ends at confluence with Briery Branch.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

USFS 2043 - Moderately impaired benthic rating and only one visit during the 2002 assessment period.

The source of the benthic rating is unknown

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Muddy Creek

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B22R_MDD01A00 **TMDL MAP ID:** VAV-B22R-01

SEGMENT SIZE: 10.38 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** 1998 - 2004

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 10.38

LATITUDE: 38.54528 **LONGTITUDE:** -78.92278

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Dry River

RIVER MILE: 0.00

LATITUDE: 38.42694 **LONGTITUDE:** -78.98167

Segment begins at Muddy Creek's headwaters and continues downstream to its confluence with Dry River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Drinking Water Use - Threatened - 2.15 miles, Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nitrate-Nitrogen - Threatened	NPS - Ag/Pt Src - Threatened
Phosphorus	NPS - Agriculture

SUMMARY:

1BMDD000.40 - 46 fecal coliform violations out of 62 samples and 1BMDD005.81 - 38 fecal coliform violations out of 60 samples for the 2002 assessment period. A TMDL for the fecal coliform impairment has been approved by EPA.

1BMDD002.10 and 1BMDD005.81- These Biological monitoring stations were moderately impaired during the 2002 assessment. The exact cause of the impairment is not known.

1BMDD000.40 - One Nitrate-Nitrogen value exceeded the public drinking water standard of 10.0 mg/l during the 2002 assessment period resulting in a threatened assessment. A TMDL for the nitrate-nitrogen has been approved by EPA. The length of the nitrate-nitrogen segment was only 2.15 miles because this is where the public water supply designation ends.

1BMDD000.40 - 13 total phosphorus values exceeded the screening value out 62 samples and 1BMDD005.81 - 8 total phosphorus values exceeded the screening value out of 63 samples during the 2002 assessment period resulting in a threatened assessment.

The primary source of the fecal coliform bacteria and other pollutants is from NPS agricultural and wildlife runoff.

The source of the benthic impairment is believed to be agricultural activities.

The sources of nitrate-nitrogen are agricultural activities and an industrial point source.

The source of the total phosphorus is NPS agricultural activities and an industrial point source.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Long Glade Run

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B24R_LGC01A00 **TMDL MAP ID:** VAV-B24R-01

SEGMENT SIZE: 10.74 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 2001 - 2004

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 10.74

LATITUDE: 38.27250 **LONGTITUDE:** -79.05639

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with North River

RIVER MILE: 0.00

LATITUDE: 38.36861 **LONGTITUDE:** -78.97167

Segment begins at the headwaters and continues downstream to its confluence with the North River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus - Threatened	NPS - Agriculture/Wildlife
	NPS - Agriculture - Threatened

SUMMARY:

1BLGC000.96 - 7 fecal coliform violations out of 17 samples during the 2002 assessment period.

1BLGC000.96 - 2 total phosphorus values exceeded the screening value out of 18 samples during the 2002 assessment period resulting in a threatened assessment.

The primary source of the fecal coliform bacteria is NPS agricultural and wildlife runoff.

The primary source of the total phosphorus is NPS agricultural activity.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Lake Shenandoah

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B29L_00 **TMDL MAP ID:** VAV-B29L-01

SEGMENT SIZE: 38.4 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2014

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:

Chlorophyll_a - Threatened

IMPAIRMENT SOURCE

Stratification

Unknown - Threatened

SUMMARY:

1BCNG003.13 - 21 DO violations out of 21 samples below the thermocline during the 2002 assessment period.

1BCNG003.13 - 7 chlorophyll a values exceeded the screening value out of 7 samples during the 2002 assessment period resulting in a threatened assessment.

The source of the low dissolved oxygen is thermal stratification

The source of the chlorophyll a is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta

STREAM NAME: Cold Spring Branch

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B30R_CRN01A00 **TMDL MAP ID:**

SEGMENT SIZE: 6.15 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 6.15

LATITUDE: 37.95222 **LONGTITUDE:** -79.11361

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Deep Pond

RIVER MILE: 0.00

LATITUDE: 37.98917 **LONGTITUDE:** -79.12278

Segment begins at the headwaters and continues downstream to its confluence with Deep Pond.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

USFS 5071 had a moderately impaired rating as a result of 1 survey during the 2002 assessment period.

The source of the benthic rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta

STREAM NAME: Toms Branch

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B31R_TMS01A02 **TMDL MAP ID:**

SEGMENT SIZE: 2.7 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2014

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 2.70

LATITUDE: 37.98333 **LONGTITUDE:** -78.90833

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Laurel Springs Branch

RIVER MILE: 0.00

LATITUDE: 37.63056 **LONGTITUDE:** -78.95444

Segment begins at the headwaters and ends at the Laurel Springs Branch confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

USFS 5104 - Had a benthic rating of moderately impaired out of one sampling event during the 2002 assessment period.

The source of the benthic rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta, Waynesboro, City of

STREAM NAME: South River

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B32R_STH01A00 **TMDL MAP ID:** VAV-B32R-02

SEGMENT SIZE: 23.89 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2014

UPSTREAM LIMIT:

DESCRIPTION: Begins at the DuPont foot bridge

RIVER MILE: 23.89

LATITUDE: 38.06111 **LONGTITUDE:** -78.88639

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the North River confluence

RIVER MILE: 0.00

LATITUDE: 38.29611 **LONGTITUDE:** -78.80750

The segment begins at the DuPont foot bridge and continues downstream to the confluence with North River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:

Mercury - Threatened

IMPAIRMENT SOURCE

NPS - Urban/Agriculture/Wildlife

Legacy - Threatened

SUMMARY:

1BSTH007.80 - 7 fecal coliform violations out of 55 samples during the 2002 assessment period.

1BSTH007.80 - one mercury sediment sample exceeded the screening criteria resulting in a threatened assessment..

The source is believed to be NPS urban, agriculture & wildlife runoff.

The source of the mercury is believed to be from a process that was abandoned by DuPont in the early 1950s.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta, Waynesboro, City of

STREAM NAME: South River

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B32R_STH02A00 **TMDL MAP ID:** VAV-B32R-01

SEGMENT SIZE: 6.8 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** 2001 - 2010

UPSTREAM LIMIT:

DESCRIPTION: Flow gage @ Lyndhurst in Waynesboro

RIVER MILE: 27.83

LATITUDE: 38.05750 **LONGTITUDE:** -78.90833

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Sawmill Run

RIVER MILE: 21.03

LATITUDE: 38.10333 **LONGTITUDE:** -78.86583

Segment begins at the Rt 664 bridge and continues downstream to the confluence with Sawmill Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:

Mercury - Threatened

IMPAIRMENT SOURCE

NPS - Urban

Legacy - Threatened

SUMMARY:

1BSTH021.72 had a moderately impaired benthic rating during the 2002 assessment period. The exact cause of the moderately impaired rating is unknown.

1BSTH026.12 - Mercury exceeded the proposed EPA criteria in one species tissue.

The source of the benthic impairment is believed to be NPS urban runoff.

The source of the Mercury is from a process that was abandoned by DuPont in the early 1950s.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta, Waynesboro, City of

STREAM NAME: South River

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B32R_STH04A00 **TMDL MAP ID:**

SEGMENT SIZE: 2.95 - Miles

INITIAL LISTING: **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Flow gage @ Lyndhurst in Waynesboro

RIVER MILE: 2.95

LATITUDE: 38.05750 **LONGTITUDE:** -78.90833

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the North River confluence

RIVER MILE: 0.00

LATITUDE: 38.29611 **LONGTITUDE:** -78.80750

The segment begins at the Lyndhurst flow gage and continues downstream to the confluence with North River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Mercury	Unknown

SUMMARY:

1BSTH026.12 - Mercury exceeded the proposed EPA criteria in one species tissue resulting in a threatened assessment.

The source of the mercury is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Augusta, Rockingham, Page, Warren, Waynesboro, City of

STREAM NAME: South River/S.F. Shen R./N.F. Shen R./Shenandoah R.

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B32R_STH01A00 **TMDL MAP ID:** VAV-Hg

SEGMENT SIZE: 128.82 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** 2000 - 2010

UPSTREAM LIMIT:

DESCRIPTION: Begins at DuPont foot bridge

RIVER MILE: 128.82

LATITUDE: 38.06111 **LONGTITUDE:** -78.88667

DOWNSTREAM LIMIT:

DESCRIPTION: Warrenton Power Dam

RIVER MILE: 0.00

LATITUDE: 38.95417 **LONGTITUDE:** -78.14833

Segment begins at the DuPont foot bridge over the South River in Waynesboro, continues downstream to the headwaters of the S.F. Shenandoah River (23.89 - 0.00) . The entire S.F. Shenandoah River is included (100.97 - 0.00). The segment ends on the main stem of the Shenandoah River at the Warrenton Power Dam (41.62 - 38.09). This segment also includes a small section of the lower N.F. Shenandoah River from its mouth upstream to the Riverton Dam (0.43 - 0.00).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Partially Supporting, Aquatic Life Use - Threatened (8.5 Miles)

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
VDH Health Advisory (Mercury)	VDH Health Advisory (Mercury)
Total Phosphorus - Threatened	Unknown - Threatened
Fish Tissue Exceedance - PAH	Unknown

SUMMARY:

Mercury has been found in fish tissue and sediments at values high enough for the VDH to issue a fish consumption advisory.

1BSTH000.19 - 5 PAH result exceeded the screening value in 1996 in 1 fish species resulting in a Partially Supporting assessment assessment for 3.64 miles beginning at Rt 677 (Luray Ave) and continuing downstream to the confluence with the North Fork Shen River.

1BSSF000.19 - 6 total phosphorus values exceeded the screening value out of 58 samples and USGS 01631000 - 20 total phosphorus values exceeded the screening value out of 76 samples during the 2002 assessment period resulting in a threatened assessment for 9.53 miles. Rt 677 (Luray Ave) downstream to the confluence with the N.F Shen River (3.64 miles) and from Gooney Run downstream to the 619 bridge (5.89 miles).

The source of the Mercury is from a process that was abandoned by DuPont in the early 1950s.

The source of the benzo(k)flouranthene in fish tissue is unknown.

The source of the total phosphorus is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: South Fork Shenandoah River

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B33R_SSF01A00 **TMDL MAP ID:** VAV-B33R-02

SEGMENT SIZE: 58.6 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 1998 - 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence of North & South Rivers

RIVER MILE: 102.66

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Hawksbill Creek

RIVER MILE: 44.06

LATITUDE: **LONGTITUDE:**

Segment begins at the North & South River confluence and continues downstream to the Hawksbill Creek confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
TP Threatened/ Sed - Hg & DDT (32.88 miles)	Unknown

SUMMARY:

1BSSF100.10 - 12 fecal coliform violations out of 56 samples during the 2002 assessment period. 1BSSF078.20 - 6 fecal coliform values violated the standard out of 56 samples during the 2002 assessment period. 1BSSF054.20 - 7 fecal coliform violations out of 59 samples during the 2002 assessment period.

DEQ's biological monitoring stations at river miles 101.10 and 53.05 indicated moderate impairment. In addition the benthic monitoring station at river mile 78.20 was fully supporting of the Aquatic Life Use during the 1988 assessment cycle. However, EPA allowed this segemnt to be added to Attachment B of the Consent Decree. Follow up sampling was not done therefore the segment must be added to the 2002 303(d) list. As a result 58.6 stream miles were assessed as partially supporting the Clean Water Act's Aquatic Life Use Support goal for the 1998 305(b) report. The cause of the moderately impaired ratings is unknown. These biological monitoring stations were not sampled during the 2002 assessment period.

1BSSF100.10 - 12 total phosphorus values exceeded the screening value out of 57 samples. 1BSSF078.20 - 20 total phosphorus values exceeded the screening value out of 59 samples. 1BSSF054.20 - 12 total phosphorus values exceeded the screening value out of 60 samples during the 2002 assessment period resulting in a threatened assessment.

1BSSF079.78 - 1 sediment sample exceeded the screening values in 1997 for DDT & Hg (32.88 miles) resulting in a threatened assessment.

The source(s) of the fecal coliform is unknown.

The source(s) of the benthic impairment is unknown.
The source(s) of the total phosphorus is unknown.

The source of the sediment DDT is unknown and the source of the mercury is legacy pollution.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Boone Run

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B35R_BON01A00 **TMDL MAP ID:** VAV-B35R-01

SEGMENT SIZE: 13.1 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2014

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 13.10

LATITUDE: 38.44889 **LONGTITUDE:** -78.72417

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the SF Shenandoah River

RIVER MILE: 0.00

LATITUDE: 38.43972 **LONGTITUDE:** -78.63472

Segment begins at the headwaters and ends at the South Fork Shenandoah River confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus - Threatened	Unknown

SUMMARY:

1BBON000.60 - 3 fecal coliform violations out of 15 samples during the 2002 assessment period.

1BBON000.60 - 11 total phosphorus values exceeded the screening value out of 15 samples during the 2002 assessment period resulting in a threatened assessment.

The source of the fecal coliform is not known.

The source of the total phosphorus is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: Quail Run

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B35R_QAL01A00 **TMDL MAP ID:** VAV-B35R-03

SEGMENT SIZE: 4.89 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** 2001 - 2004

UPSTREAM LIMIT:

DESCRIPTION: Massanutten STP discharge

RIVER MILE: 4.89

LATITUDE: 38.40500 **LONGTITUDE:** -78.71278

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Boones Run

RIVER MILE: 0.00

LATITUDE: 38.43000 **LONGTITUDE:** -78.64000

Segment begins at the Massanutten STP discharge and continues downstream to its confluence with Boones Run.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus - Threatened	PS - STP - Massanutten
	Unknown - Threatened

SUMMARY:

1BQAL004.47 and 1BQAL005.13 had moderately impaired benthic rating during the 2002 assessment period. The exact cause of the moderately impaired rating is not known but is believed to be due to the discharge from the Massanutten STP.

1BQAL004.30 - 18 total phosphorus values exceeded the screening value out of 20 samples during the 2002 assessment period resulting in a threatened assessment.

The STP is the source of the benthic impairment.

The source of the total phosphorus is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Page

STREAM NAME: Morgan Run

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B37R_MGN02A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.6 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 2.41

LATITUDE: 38.50750 **LONGTITUDE:** -78.44889

DOWNSTREAM LIMIT:

DESCRIPTION: Ends 1.6 miles downstream

RIVER MILE: 0.81

LATITUDE: 38.46000 **LONGTITUDE:** -78.52000

Segment begins at the headwaters and continues downstream for 1.6 miles.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

4047 - Had a moderately impaired rating but only 1 survey was performed during the 2002 sampling period.

The source is unknown

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Page

STREAM NAME: Morgan Run

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B37R_MGN02A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.6 - Miles

INITIAL LISTING: **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 2.41

LATITUDE: 38.51000 **LONGTITUDE:** -78.68889

DOWNSTREAM LIMIT:

DESCRIPTION: 0.81 miles above the mouth

RIVER MILE: 0.81

LATITUDE: 38.52361 **LONGTITUDE:** -78.65750

Segment begins at the headwaters and ends at the S.F. Shenandoah River confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

4047 - Had a moderately impaired benthic rating but only one survey was done during the 2002 sampling period resulting in a threatened assessment.

The source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Page

STREAM NAME: Panhandle Trib #2

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B37R_XEK01A02 **TMDL MAP ID:**

SEGMENT SIZE: 1.89 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 1.89

LATITUDE: 38.87194 **LONGTITUDE:** -78.33639

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with S.F. Shen R.

RIVER MILE: 0.00

LATITUDE: 38.87417 **LONGTITUDE:** -78.30944

Segment begins at the headwaters and continues downstream to the confluence with the S.F. Shenandoah River.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

4053 - Had a moderately impaired rating but only 1 survey was performed during the 2002 sampling period.

The source is unknown

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Warren, Clarke

STREAM NAME: S.F. Shenandoah River/N.F. Shenandoah River/Shenandoah

HYDROLOGIC UNIT: 02070005

SEGMENT ID.: VAV-B41R_SSF01A00 **TMDL MAP ID:** VAV-PCB

SEGMENT SIZE: 51.1 - Miles

INITIAL LISTING: 1998 **TMDL Schedule:** 2001 - 2002

UPSTREAM LIMIT:

DESCRIPTION: Begins at Rt 619 Bridge in Front R.

RIVER MILE: 51.10

LATITUDE: 38.91361 **LONGTITUDE:** -78.21000

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the VA/WVA state line

RIVER MILE: 0.00

LATITUDE: 39.15000 **LONGTITUDE:** -77.86000

Segment begins at the Rt 619 bridge over the S.F. Shenandoah River in Front Royal and ends at the Va/WVa state line (river miles 3.5 - 0.00 (S.F. Shenandoah River), 41.62 - 0.00 (Shenandoah River)). A short segment of the lower N.F. Shenandoah River is also included from its mouth upstream to the Passage Creek confluence (5.23 miles).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Not Supporting, Aquatic Life Use - Threatened (27.37 Miles), Fish Consumption Use - Partially Supporting-5.28 miles

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
VDH Health Advisory (PCBs)	PS - Avtex
Total Phosphorus - Threatened	Unknown - Threatened
Fish Tissue Exceedance - PAH 5.28 miles	Unknown

SUMMARY:

PCBs have been found in fish tissue and sediments at values high enough for the VDH to recommend that fish not be consumed. A TMDL has been completed and approved by EPA for PCBs.

1BNFS000.57 - benzo(k)fluroranthene and ideno(1,2,3-cd) pyrene exceeded the screening value in 1 species of fish in 1996 resulting in a threatened assessment. 8 total phosphorus values exceeded the screening value out of 58 samples during the 2002 assessment period also resulting in a threatened assessment for 5.23 miles on the N.F. Shenandoah River.

1BSSF000.58 - benz(a)anthracene, chrysene, benzo(a)pyrene and ideno(1,2,3-cd) in 1 species resulting in a threatened assessment.

1BSHN022.86 - PCB in 3 species in 1999 [Not Supporting Assessment because of the VDH fish consumption ban].. 1BSHN028.15 - PCB in 1 species in 1999. [Not Supporting Assessment because of the VDH fish consumption ban].

1BSHN038.27 - PCB 4 species in 1999 & 5 species in 1996 [Not Supporting Assessment because of the VDH fish consumption ban]. Chlordane & Heptachlor. Epoxide in 1 species resulting in a threatened assessment. Benzo(k)flouranthene in 4 species resulting in a Partially Supporting assessment (5.28 miles).

1BSHN048.00 - 6 total phosphorus values out of 59 samples exceeded the screening value during the 2002 assessment period resulting in a threatened assessment for 27.37 miles on the Shenandoah River.

The source of the PCBs was the former Avtex Fibers Plant in Front Royal.

The source of the total phosphorus is unknown.

The source of the PAHs is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham

STREAM NAME: N.F. Sheandoah River

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B42R_NFS01A00 **TMDL MAP ID:**

SEGMENT SIZE: 24.86 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 112.58

LATITUDE: 38.76778 **LONGTITUDE:** -78.94083

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Linville Creek

RIVER MILE: 87.72

LATITUDE: 38.62028 **LONGTITUDE:** -78.79361

Segment begins at the headwaters and ends at the confluence with Linville Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Fish Consumption Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Exceedance of Fish Tissue SV	Uknown

SUMMARY:

1BNFS093.53 - Benz(a)anthracene, benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene all in one species resulting in a threatened assessment.

The source is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham, Shenandoah

STREAM NAME: North Fork Shenandoah River

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B45R_NFS02A00 **TMDL MAP ID:** VAV-B45R-04

SEGMENT SIZE: 13.18 - Miles

INITIAL LISTING: 1996 **TMDL Schedule:** 2001 - 2010

UPSTREAM LIMIT:

DESCRIPTION: Confluence with Linville Creek

RIVER MILE: 87.72

LATITUDE: 38.61972 **LONGTITUDE:** -78.79444

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Holmans Creek

RIVER MILE: 74.54

LATITUDE: 38.72806 **LONGTITUDE:** -78.63333

Segment begins at the N.F. Shenandoah River's confluence with Linville Creek and continues downstream to its confluence with Holman's Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus - Threatened	NPS - Agriculture\Wildlife
	Unknown - Threatened

SUMMARY:

1BNFS081.42 - 8 fecal coliform violations out of 59 samples during the 2002 assessment period.

1BNFS081.42 - 13 total phosphorus values exceeded the screening value out of 60 samples during the 2002 assessment period resulting in a threatened assessment.

The primary source of the fecal coliform bacteria is NPS agricultural and wildlife runoff.

The source of the total phosphorus is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Rockingham, Shenandoah

STREAM NAME: North Fork Shenandoah River

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B45R_NFS01A00 **TMDL MAP ID:**

SEGMENT SIZE: 69.31 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Confluence with Holmans Creek

RIVER MILE: 74.54

LATITUDE: 38.70000 **LONGTITUDE:** -78.65611

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Passage Creek

RIVER MILE: 5.23

LATITUDE: 38.97694 **LONGTITUDE:** -78.27000

Segment begins at the N.F. Shenandoah River's confluence with Holman's Creek and continues downstream to its confluence with Passage Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus	Unknown

SUMMARY:

1BNFS070.67 - 8 total phosphorus values exceeded the screening value out of 60 samples, 1BNFS054.75 - 23 total phosphorus values exceeded the screening value out of 56 samples and NFS010.34 - 16 total phosphorus values exceeded the screening value out of 58 samples during the 2002 assessment period resulting in a threatened assessment.

The source of the total phosphorus is not known.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Shenandoah

STREAM NAME: Crooked Run

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B48R_CKD01A00 **TMDL MAP ID:**

SEGMENT SIZE: 3.9 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 3.90

LATITUDE: 38.79500 **LONGTITUDE:** -78.71972

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Mill Creek

RIVER MILE: 0.00

LATITUDE: 38.75806 **LONGTITUDE:** -78.68028

Segment begins at the headwaters and continues downstream to its confluence with the Mill Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

1BCKD-BS12-SOS - Had a medium probability for impairment during the 2002 assessment period.

The source of the rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Shenandoah

STREAM NAME: Straight Run

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B48R_SRT01A00 **TMDL MAP ID:**

SEGMENT SIZE: 4.61 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 4.61

LATITUDE: 38.75750 **LONGTITUDE:** -78.80694

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Mill Creek

RIVER MILE: 0.00

LATITUDE: 38.76972 **LONGTITUDE:** -78.74778

Segment begins at the headwaters and continues downstream to its confluence with the Mill Creek.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	**IMPAIRMENT SOURCE**
General Standard (Benthic)	Unknown

SUMMARY:

1BSRT-BS7-SOS - Had a medium probability of being impaired during the 2002 assessment period resulting in a threatened assessment.

The source of the rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Shenandoah

STREAM NAME: Stony Creek

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B49R_STY01A00 **TMDL MAP ID:** VAV-B49R-02

SEGMENT SIZE: 5.65 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2010

UPSTREAM LIMIT:

DESCRIPTION: Begins at the George's Chicken Discharge

RIVER MILE: 5.65

LATITUDE: 38.85972 **LONGTITUDE:** -78.62083

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the N.F. Shen R confluence

RIVER MILE: 0.00

LATITUDE: 38.82222 **LONGTITUDE:** -78.54889

Segment begins at the George's Chicken Discharge and ends at the North Fork confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Total Phosphorus - Threatened	NPS - Agriculture, Wildlife
	Ind Pt Src - Threatened

SUMMARY:

1BSTY001.22 - 7 fecal coliform violations out of 58 samples during the 2002 assessment period.

1BSTY001.22 - 39 total phosphorus values exceeded the screening value out of 57 samples during the 2002 assessment period resulting in a threatened assessment.

The source is believed to be NPS agricultural and wildlife runoff.

The source of the total phosphorus is believed to be an industrial point source.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Shenandoah

STREAM NAME: Stony Creek

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B49R_STY01A00 **TMDL MAP ID:**

SEGMENT SIZE: 54.58 - Miles

INITIAL LISTING: **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION: Ends at the North Fork confluence

RIVER MILE:

LATITUDE: **LONGTITUDE:**

Segment begins at the headwaters ends at the North Fork confluence including tributaries. Excludes segments where actual monitoring data indicates total phosphorus values aren't high.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Nutrient Enriched Waters designation	Industrial Point Source

SUMMARY:

The Stony Creek watershed has been designated a Nutrient Enriched Watershed (9 VAC 25-260-350).

The designation was made because of excessively high phosphorus levels in Stony Creek. The total phosphorus levels are the result of the discharge from the George's Chicken Processing Plant. However, the entire watershed was included in the designation. The standard needs to be amended to remove the portions of the watershed upstream of the discharge.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Shenandoah

STREAM NAME: Little Passage Creek

HYDROLOGIC UNIT: 02070006

SEGMENT ID.: VAV-B54R_LPC01A00 **TMDL MAP ID:**

SEGMENT SIZE: 4.61 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 4.61

LATITUDE: 38.94417 **LONGTITUDE:** -78.35472

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Passage Creek

RIVER MILE: 0.00

LATITUDE: 38.89472 **LONGTITUDE:** -78.36250

Segment begins at the headwaters and ends at the Passage Creek confluence.

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
General Standard (Benthic)	Unknown

SUMMARY:

4018 - Had a moderately impaired benthic rating but only 1 survey was performed during the 2002 sampling period resulting in a threatened assessment.

The source of the benthic rating is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Frederick

STREAM NAME: Lake Frederick

HYDROLOGIC UNIT: 02070007

SEGMENT ID.: VAV-B56RL_00 **TMDL MAP ID:** VAV-B56L-01

SEGMENT SIZE: 115.2 - Acres

INITIAL LISTING: 2002 **TMDL Schedule:** 2002 - 2014

UPSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

DOWNSTREAM LIMIT:

DESCRIPTION:

RIVER MILE:

LATITUDE: **LONGTITUDE:**

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:

Chlorophyll_a - Threatened

IMPAIRMENT SOURCE

Stratification

Unknown - Threatened

SUMMARY:

1BCRO009.19 - 42 DO Violations out of 43 samples below the thermocline during the 2002 assessment period.

1BCRO009.79 - 5 DO Violations out of 12 samples below the thermocline during the 2002 assessment period.

7 Chlorophyll a values out of 7 samples were below the screening value at both monitoring stations and 1BXCE000.63 during the 2002 assessment period resulting in a threatened assessment.

The source of the low dissolved oxygen is thermal stratification

The source of the chlorophyll a is unknown.

2002 303(d) PART 3 WATERS OF CONCERN FACT SHEET

RIVER BASIN: POTOMAC AND SHENANDOAH RIVER BASIN

CITY/COUNTY: Frederick

STREAM NAME: Stephens Run

HYDROLOGIC UNIT: 02070007

SEGMENT ID.: VAV-B56R_STV01A00 **TMDL MAP ID:**

SEGMENT SIZE: 7.88 - Miles

INITIAL LISTING: 2002 **TMDL Schedule:** -

UPSTREAM LIMIT:

DESCRIPTION: Begins at the headwaters

RIVER MILE: 6.71

LATITUDE: 39.08722 **LONGTITUDE:** -78.22806

DOWNSTREAM LIMIT:

DESCRIPTION: Confluence with Crooked Run

RIVER MILE: 0.00

LATITUDE: 39.01389 **LONGTITUDE:** -78.16889

Segment begins at the headwaters and ends at the Crooked Run confluence.
Segment includes an unnamed tributary (1.17 miles).

CLEAN WATER ACT GOAL AND USE SUPPORT:

Aquatic Life Use - Threatened

IMPAIRMENT CAUSE:	IMPAIRMENT SOURCE
Ammonia	Unknown

SUMMARY:

1BSTV004.80 - Had one ammonia acute standard violation during the 2002 assessment period resulting in a threatened assessment.

The source is unknown.